



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/767,598	01/29/2004	Max Krogager	821-55	5213
28249	7590	01/08/2007		
DILWORTH & BARRESE, LLP			EXAMINER	
333 EARLE OVINGTON BLVD.			DANIELS, MATTHEW J	
UNIONDALE, NY 11553				
			ART UNIT	PAPER NUMBER
			1732	
			MAIL DATE	DELIVERY MODE
			01/08/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

<b>Advisory Action Before the Filing of an Appeal Brief</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	10/767,598	KROGAGER ET AL.
<b>Examiner</b>	<b>Art Unit</b>	
Matthew J. Daniels	1732	

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 11 December 2006 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

1.  The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:

- The period for reply expires 3 months from the mailing date of the final rejection.
- The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### NOTICE OF APPEAL

2.  The Notice of Appeal was filed on       . A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

#### AMENDMENTS

3.  The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because

- They raise new issues that would require further consideration and/or search (see NOTE below);
- They raise the issue of new matter (see NOTE below);
- They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
- They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE:       . (See 37 CFR 1.116 and 41.33(a)).

4.  The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).

5.  Applicant's reply has overcome the following rejection(s):       .

6.  Newly proposed or amended claim(s)        would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).

7.  For purposes of appeal, the proposed amendment(s): a)  will not be entered, or b)  will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.

The status of the claim(s) is (or will be) as follows:

Claim(s) allowed:       .

Claim(s) objected to:       .

Claim(s) rejected:       .

Claim(s) withdrawn from consideration:       .

#### AFFIDAVIT OR OTHER EVIDENCE

8.  The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).

9.  The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).

10.  The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

#### REQUEST FOR RECONSIDERATION/OTHER

11.  The request for reconsideration has been considered but does NOT place the application in condition for allowance because: See the enclosed response to arguments.

12.  Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s).       

13.  Other:       .

***Response to Arguments***

Applicant's arguments filed 11 December 2006 have been fully considered but they are not persuasive. The arguments appear to be on the following grounds:

- a) The Applicants do not agree with the interpretation that the lines in Russell's Fig. 5 represent thin slots or fissures. A declaration is provided to describe the distinct improvement of producing thin slots and/or fissures instead of coarse drilling holes. Russell teaches only coarse holes such as bores.
- b) The Examiner relies on newly cited reference Bhattacharyya to support the Examiner's interpretation of Russell. Bhattacharyya uses a different drilling mechanism, and also teaches that delamination is produced when drilling is performed without a backing plate. In Russell, the laminated structure was supported by a backing plate.
- c) In fact, Bhattacharyya would cause little or no delamination of the laminated structure, and this is taught in the paragraph bridging columns 1 and 2 of page 277.

**These arguments are not persuasive for the following reasons:**

- a) The declaration has not been considered. No good and sufficient reasons have been advanced by Applicant.
- b and c) Firstly, Bhattacharyya is only provided as a supporting reference, and does not negate the teachings of Russell. With respect to Claim 1, Russell clearly creates the connection paths (page 14-3) either by impact testing, drilling, or drilling followed by loading (page 14-3, right column, bottom). Thus, Russell still reads on Claim 1, and the remarks appear to be directed to the dependent claims where other embodiments are sought.

The Examiner maintains his position regarding Bhattacharyya's teachings that "One other important finding from the scanning results was that almost every hole would show some signs of delamination around the drilling zone." (emphasis added, bridging pages 277 and 278). Note that the claims were rejected under 35 USC 103(a). Applicant's remarks have pointed out portions of the reference that show delamination can be minimized, but contrary to the Applicant's assertion, the table on page 277 does not show absence of delamination caused by drilling. Additionally, it is clear that Russell desires the method to be used for "on-aircraft" repairs (page 14-3, col. 1, third paragraph), where back supports would not likely be present.

*Conclusion*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew J. Daniels whose telephone number is (571) 272-2450. The examiner can normally be reached on Monday - Friday, 8:00 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Johnson can be reached on (571) 272-1176. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MJD 1/4/07

*MJD*

*CH*  
CHRISTINA JOHNSON  
SUPERVISORY PATENT EXAMINER

*1/5/07*